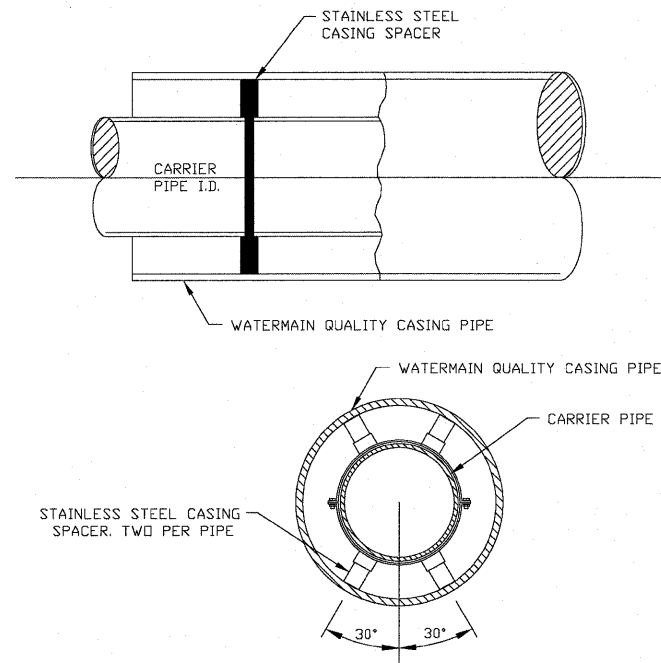


PIPE CASING SPACER DETAIL FOR WATER MAINS



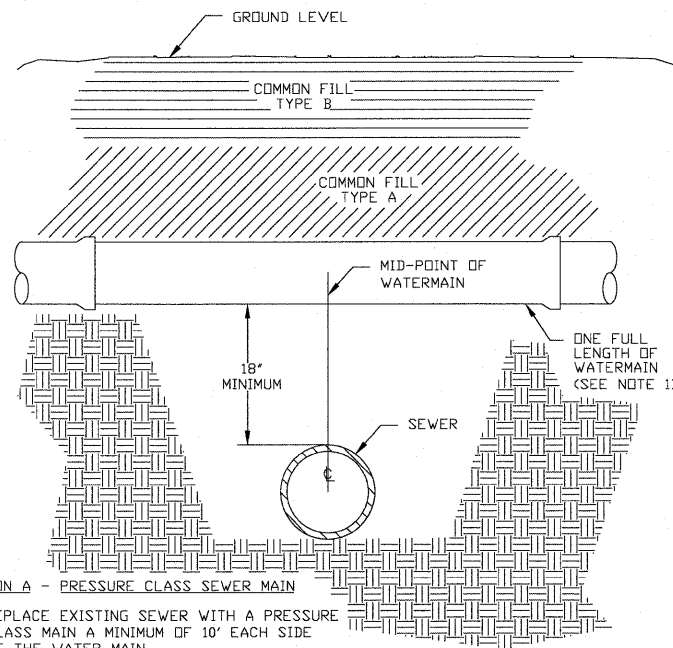
NOTES

1. THE WATER MAIN SHALL BE "CENTERED SPACED" AND RESTRAINED ON TOP AND BOTTOM UTILIZING TWO CASING SPACERS EQUALLY SPACED PER LENGTH OF PIPE.
2. CASING SPACERS ARE TO BE CASCADE MFG. BRAND OR APPROVED EQUAL.

GENERAL NOTES

1. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL UTILITY LOCATIONS AND ELEVATIONS PRIOR TO CONSTRUCTION.
2. PRIOR TO BID SUBMISSION, CONTRACTOR SHALL VISIT THE SITE AND RESOLVE ANY QUESTIONS WHICH MAY AFFECT THE WORK.
3. ALL CONSTRUCTION OPERATIONS SHALL BE IN ACCORDANCE WITH THE APPLICABLE REGULATIONS OF THE UNITED STATES OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (O.S.H.A.).
4. CONTRACTOR SHALL NOTIFY OWNER OF ALL UNDERGROUND TILES ENCOUNTERED IN THE WORK AREA.
5. THE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS ACCOMPANYING THESE PLANS AND THE FOLLOWING SPECIFICATIONS:
 - A. "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", BY THE ILLINOIS DEPT. OF TRANSPORTATION, LATEST EDITION.
 - B. "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS", BY THE ILLINOIS DEPT. OF TRANSPORTATION, LATEST EDITION.
 - C. ALL WORK SHALL BE CONDUCTED IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS", LATEST EDITION. ALL PROPOSED WATER MAINS SHALL MEET MINIMUM SEPARATION OR ENGAGEMENT PER THE STANDARD SPECIFICATIONS.
6. CONTRACTOR SHALL PROVIDE A TEMPORARY MEANS OF ACCESS TO DRIVEWAYS UNTIL THE PERMANENT DRIVEWAY APRON IS INSTALLED. THIS SHALL CONSIST OF 6" MIN. OF CA-06 AGGREGATE COMPACTED TO THE SATISFACTION OF THE ENGINEER. THIS WORK SHALL NOT BE MEASURED AND PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST FOR WATERMAIN PIPE.
7. ALL PIPE SHALL BE PVC SDR 21 UNLESS SHOWN OTHERWISE.
8. CONTRACTOR SHALL SATISFACTORILY DISINFECT ALL WATER MAINS PRIOR TO USE. IN ACCORDANCE WITH REQUIREMENTS OF AWWA C651-99, AT LEAST ONE SET OF SAMPLES SHALL BE COLLECTED FROM EVERY 1,200 FEET OF NEW WATER MAIN, PLUS ONE SET FROM THE END OF THE LINE AND AT LEAST ONE SET FROM EACH BRANCH. SATISFACTORY DISINFECTION SHALL BE DEMONSTRATED IN ACCORDANCE WITH THE REQUIREMENTS OF 35 IL ADM. CODE 652-203. CONTRACTOR SHALL FURNISH AND INSTALL CORPORATION STOPS AT REQUIRED SAMPLING LENGTHS.
9. CONTRACTOR SHALL MAINTAIN A MINIMUM 2' SPOOL PIECE LENGTH.
10. THE PIPE SHALL BE LAID WITH A COVER OF AT LEAST 48 INCHES AND NO MORE THAN 54 INCHES AS MEASURED FROM THE TOP OF THE PIPE TO THE PROPOSED FINISHED GRADE OF THE GROUND OR PAVEMENT, UNLESS OTHERWISE INDICATED BY THE ENGINEER OR NOTED ON THE CONSTRUCTION DRAWINGS.
11. ANY WORK IN THE STREET THAT WILL REQUIRE THE CLOSURE OF A LANE TO TRAFFIC MUST PROVIDE A MINIMUM 48 HOURS NOTICE TO THE CITY OF HAVANA PUBLIC WORKS DEPARTMENT (309-494-8803) FOR PROPER PUBLIC AND E911 NOTIFICATION.

WATER MAIN CROSSING OVER SEWER



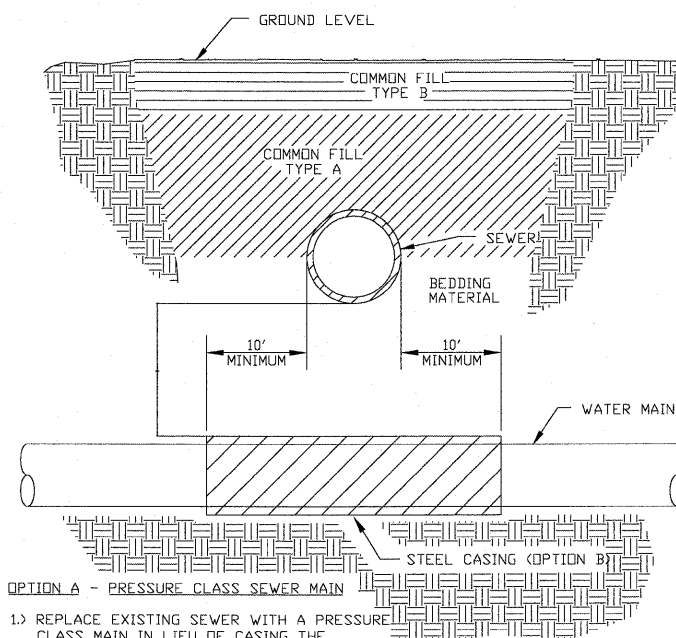
OPTION A - PRESSURE CLASS SEWER MAIN

- 1) REPLACE EXISTING SEWER WITH A PRESSURE CLASS MAIN A MINIMUM OF 10' EACH SIDE OF THE WATER MAIN.

OPTION B - WATER MAIN INSTALLATION

- 1) MID-POINT OF ONE FULL LENGTH OF WATER MAIN IS TO BE CENTERED ABOVE SEWER LINE.
- 2) PROVIDE ADEQUATE SUPPORT FOR THE WATER MAIN TO PREVENT DAMAGE DUE TO SETTLEMENT.

WATER MAIN CROSSING UNDER SEWER



OPTION A - PRESSURE CLASS SEWER MAIN

- 1) REPLACE EXISTING SEWER WITH A PRESSURE CLASS MAIN IN LIEU OF CASING THE WATER MAIN.

- 2) THE SEWER SHALL BE REPLACED A MINIMUM OF 10' EACH SIDE OF THE WATER MAIN.

OPTION B - WATER MAIN CASING INSTALLATION

- 1) PROVIDE ADEQUATE SUPPORT FOR THE EXISTING SEWER TO PREVENT DAMAGE DUE TO SETTLEMENT.

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CHECKED - ERB/RDY	REVISED -
DATE - 09/29/09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CITY OF HAVANA - BROADWAY STREET
WATERMAIN DETAILS

SCALE: N.T.S. SHEET NO. OF SHEETS STA. 10+37 TO STA. 31+99.5

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	05-00035-00-SS	MASON	60	34
CONTRACT NO. 93502				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				